TEAC® A-4070

SERVICE MANUAL

This data is provided for interim service of this equipment pending completion of the final service manual.

If you have any comments, questions etc. concerning the equipment or service data please contact us at once.

If you desire a copy of the finished service manual please order from the address listed below.

TEAC CORPORATION

SALES OFFICE: SHINJUKU BUILDING
1-8-1, NISHI-SHINJUKU, SHINJUKU, TOKYO

U.S. DISTRIBUTOR: TEAC CORPORATION OF AMERICA
7733 TELEGRAPH ROAD
MONTEBELLO, CALIFORNIA 90640
U.S.A.

EUROPEAN DISTRIBUTOR: TEAC EUROPE N.V.
KABELWEG 45-47, AMSTERDAM-W. 2,
HOLLAND

MT4070D100

PRINTED IN JAPAN 0571·S·007

SERVICE DATA

MECHANICAL

Heads:	4 track 2 channel stereophonic. Erase/Record combination head x 2; Erase section, 1.8 kohm/100 kHz, erase current approx. 30 mA. Record section, 85 ohm/1 kHz, bias current approx. 2.5 mA. signal current approx. 200 uA. Playback x 2; 1 - 2 kohm/1 kHz -66 dB.
Tape width:	Standard 1/4 inch tape.
Tape speed:	3-3/4 ips and 7-1/2 ips (±0.5%).
Motors:	4/8-pole dual speed hysteresis synchronous motor for capstan drive. 6-pole eddy current motors for reel drive.
Wow and Flutter:	0.15% at 7-1/2 ips. 0.20% at 3-3/4 ips. Wow and flutter measured according to weighted NAB standard using TEAC flutter free tape.
Fast Winding Time:	Approx. 120 second or less for 1,200 feet.
Operating Position:	Horizontal or vertical.
Power Requirements:	100/117/200/220/240 V AC (Model 1250, 117 V 60 Hz) 50/60 Hz 125 W.
Weight:	24 kg.
Dimension:	445 x 456 x 235(mm).

ELECTRICAL

Transistors:	2SC733 x 16 2SC732BL x 12 2SA494 x 2 2SC971 x 2 2SC1000 x 2
Diodes:	FR2-02 x 1 SIB02-B x 1 FR2-06 x 7 FR2-10 x 2
Frequency Response:	Overall from recording INPUT to playback OUTPUT. Using Scotch #203 tape. 7-1/2 ips, ±3 dB 30 Hz - 20 kHz 3-3/4 ips, ±3 dB 40 Hz - 10 kHz
Equalization:	NAB equalization 7-1/2 ips 50 u sec. 3-3/4 ips 90 u sec.
Input(minimum):	MIC: 0.3 mV/50 kohm(-70 dB). LINE: 0.1 V/50 kohm(-18 dB).
Output(maximum):	LINE: approx. -8 dB/10 kohm or more. HEADPHONE: -24 dB/8 ohm.
Bias Freq.:	100 kHz push-pull oscillator.
Signal to Noise Ratio:	54 dB/7-1/2 ips or more. Peak record level to unweighted noise.
Stereo Chan. Separation:	50 dB Channel to channel at 1 kHz.
Cross Talk:	65 dB Adjacent track at 1 kHz.
Erase Efficiency:	70 dB or more at 7-1/2 ips.

Specifications and components subject to change without notice.

0 dB = 0.775 V

These specifications are indispensible information and are required to service the equipment properly. They may differ slightly from those printed in the advertising brochures or the operation manual.

PLAYBACK PERFORMANCE

STEP	TEST SIGNAL	CONTROL & SWITCHING SETTING	ADJUST	READING	REMARKS
1. Presetting	Thread TEAC test tape YTT 1003 (YTT 1002 for 3-3/4 ips) on unit.	Set MONITOR sw to TAPE. SPEED sw to 7-1/2 ips. PAUSE sw to OFF. LEVEL sw to NORMAL. TAPE sw to REGULAR.			Connect to level meter OUTPUT jack using TEAC M 826A.
2. Playback Head Azimuth Adj.	Azimuth Adj. signal 15 kHz on section 2.	See step 1, presetting above and set OUTPUT cont' to full CW.	Azimuth Adj. screw on both playback heads.	Maximum at OUTPUT.	
3. Playback Level Set	Operating reference level 400 Hz on section 1.		FWD: VR 101/201. REV: VR 102/202.	-2 dB at OUTPUT.	
4. Specified Output Level Set		Turn OUTPUT cont' for *specified output level.*	OUTPUT cont'.	-8 dB at OUTPUT.	Important: Do not change this setting until after all steps are completed.
5. VU Meter -NORMAL- Calibration		See step 1, presetting and step 4.	FWD: VR 106/206. REV: none.	0 VU on VU meter.	Level meter reading -8 dB at output.
6. VU Meter -HIGH- Calibration		See step 1 and step 4, except LEVEL sw to HIGH.	FWD: VR 105/205. REV: none.	-6 VU on VU meter.	After this adjustment, return LEVEL sw to NORMAL.
7. Freq. Response Check	Series tone 40 Hz - 15 kHz on section 3.	See step 1, presetting and step 4.	FWD: none. REV: none.	See Freq. Response Limit.	Operational check only. Playback EQ is fixed also 3-3/4 ips.
8. Noise Level Check				-53 dB at 7-1/2 ips. -54 dB at 3-3/4 ips.	Leave the test tape from the capstan and pinch roller, tape transport in playback mode.
		MONITOR PERFORMANCE			
9. Specified Input Level Set	Apply 500 Hz/-8 dB specified input signal to LINE IN jack.	Turn LINE cont' to *specified output level* with following conditions. MONITOR sw to SOURCE, LEVEL sw to NORMAL, MIC cont' to full CCW, OUTPUT cont' to *specified output level* set.	LINE cont'.	-8 dB at OUTPUT. (0 VU).	
10. Noise Level Check	Disconnect AF oscillator. (No signal apply).			-65 dB at OUTPUT.	Tape transport in neutral mode.

RECORDING PERFORMANCE

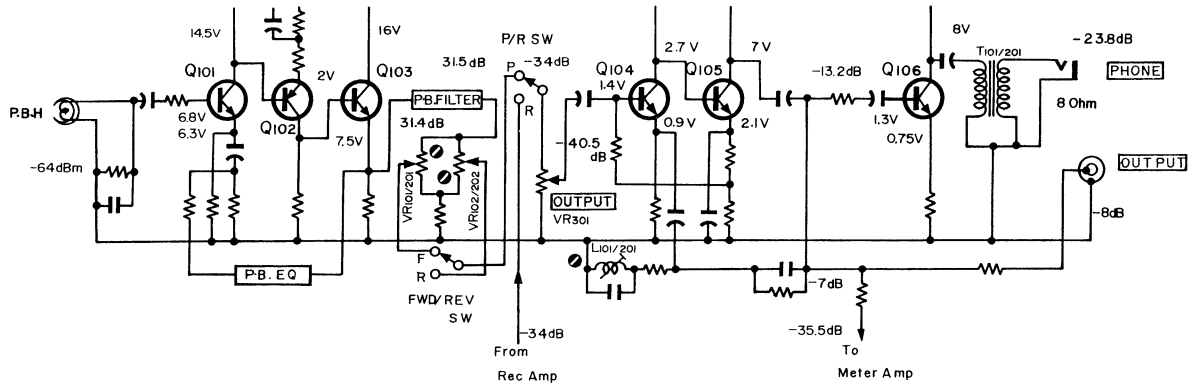
STEP	TEST SIGNAL	CONTROL & SWITCHING SETTING	ADJUST	READING	REMARKS
11. Presetting	Thread recording test tape Scotch 203 on unit. Connect AF oscillator to LINE IN jack using TEAC M 826A.	MONITOR sw to TAPE. OUTPUT cont' to specified output level position. LINE cont' to specified input level position. MIC cont' to full CCW. BIAS sw to HIGH. Stereo record mode. LEVEL sw to NORMAL.			Connect level meter to OUTPUT jack.
12. Bias Trap Coil Adjustment	No signal apply	Set unit to stereo recording mode.	L102/202	Minimum at TP	Using high impedance input VTVM.
13. Bias Leakage Check			L101/201	Minimum at OUTPUT	
14. REC Head Azimuth	15 kHz/-23 dB to LINE IN.	See step 11.	Azimuth Adj. screw on REC HEAD.	Maximum at OUTPUT.	
15. Bias Adj. -NORMAL-	500 Hz/-8 dB to LINE IN. Using Scotch 150.	See step 11 except BIAS sw to NORMAL.	FWD: VC 101/201. REV: VC 103/203.	Decrease 0.5 dB from peak.	
16. Bias Adj. -HIGH-	500 Hz/-8 dB to LINE IN. Using Scotch 203.	See step 11.	FWD: VC 102/202. REV: VC 104/204.		
17. Rec. Level Set			FWD: VR 103/203. REV: VR 104/204.	-8 dB at OUTPUT.	
18. Freq. Response at 7-1/2 ips.	30 Hz - 20 kHz/-23 dB to LINE IN.		FWD: L 103/203. REV: none.	See Freq. Response Limit.	
19. Freq. Response at 3-3/4 ips.	40 Hz - 10 kHz/-23 dB to LINE IN.	See step 11 except SPEED sw to 3-3/4 ips.	FWD: C 149/249. REV: none.	See Freq. Response Limit.	
20. S/N Overall				46 dB at 7-1/2 ips. 44 dB at 3-3/4 ips.	

NOTES

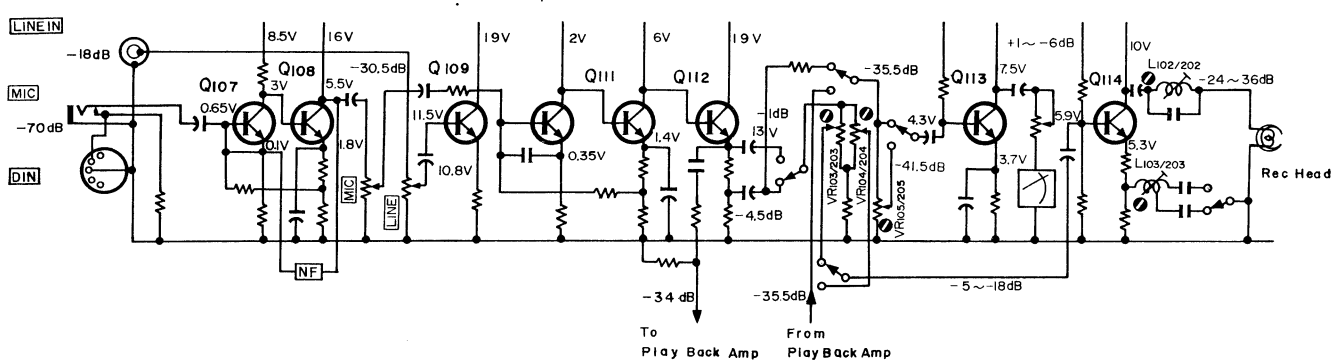
FWD: FORWARD (▶).
REV: REVERSE (◀).
sw : SWITCH.
cont': VOLUME CONTROL.

DOUBLE SYMBOL LEFT/RIGHT CHANNEL.
0 dB = 0.775 V.
none: No adjustment requires. Operational check only.
TP : TEST POINT.

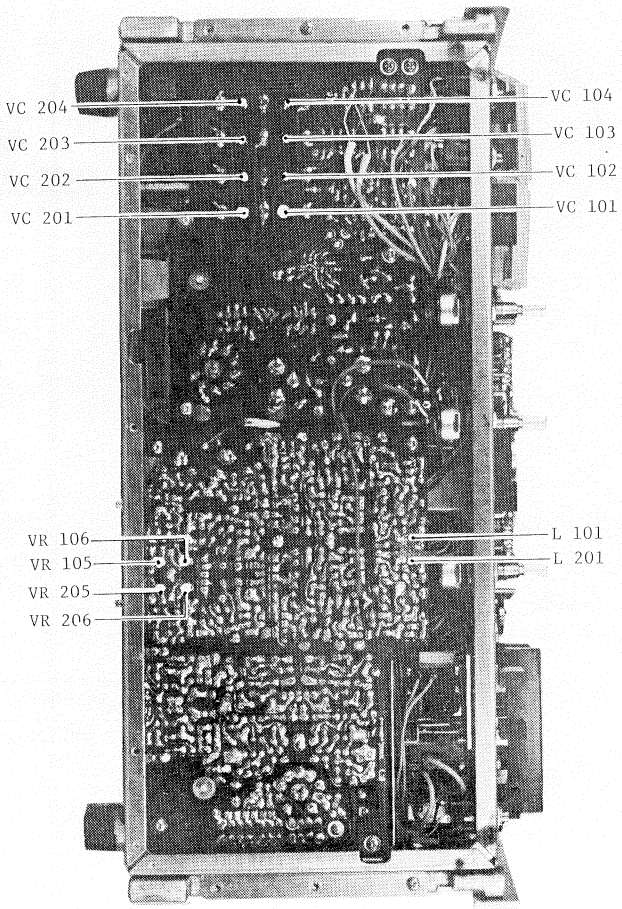
Playback Section



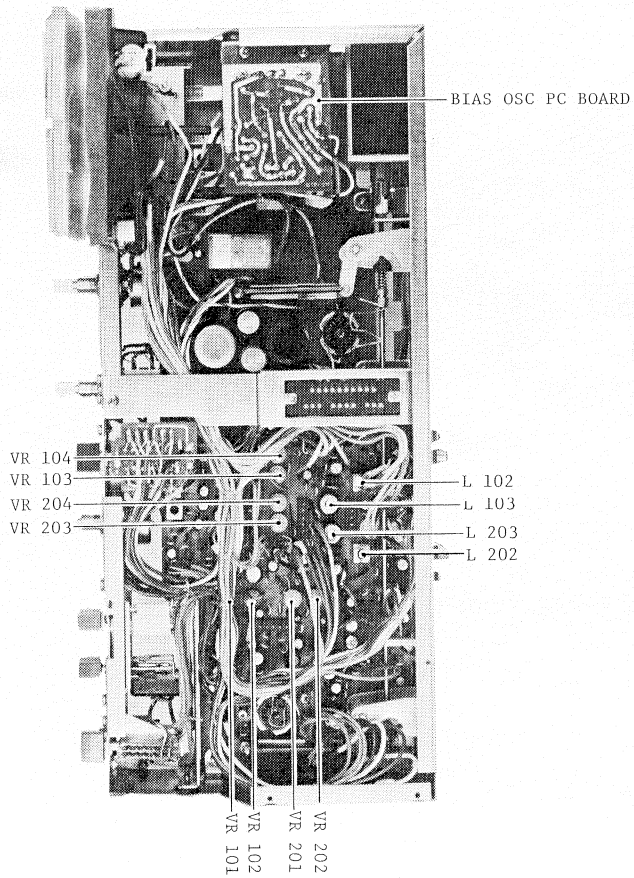
Record Section



SIGNAL LEVEL AND DC VOLTAGE CHART



BOTTOM VIEW



TOP VIEW

ADJUSTABLE COMPONENTS

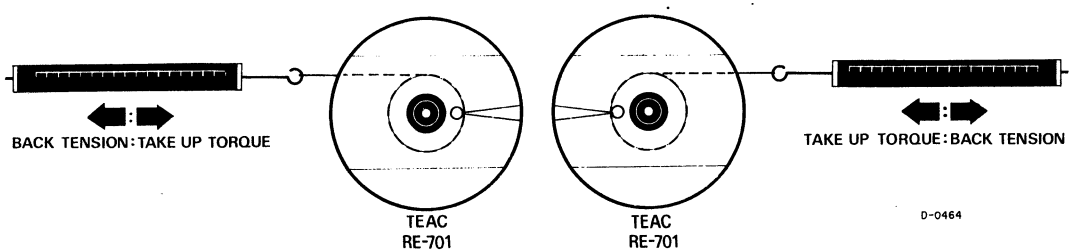
TAPE TRANSPORT

• REEL MOTOR TORQUE:

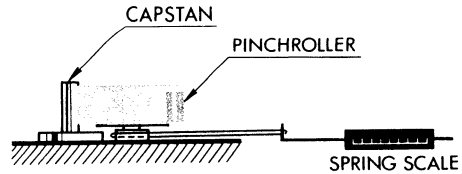
These measurement are with TAPE switch in REGULAR position.

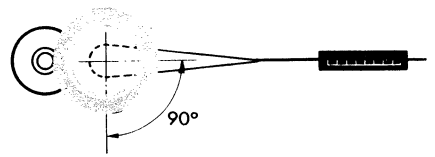
		LEFT	RIGHT		
		230 g-cm	300 g-cm	Torque	FORWARD
		R 802	R 801	Adjustment	
REVERSE	Torque	300 g-cm	230 g-cm		
	Adjustment	R 801	R 802		

		NOTE
• PINCH ROLLER PRESSURE:	2.0 ±0.2 kg	230 g-cm = 3.2 oz-in
• BRAKE TORQUE:	1.3 kg-cm	300 g-cm = 4.2 oz-in

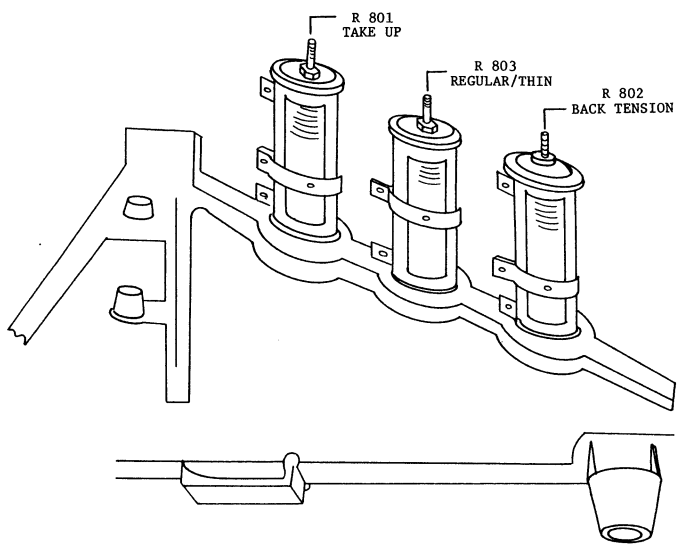


TENSION MEASUREMENTS





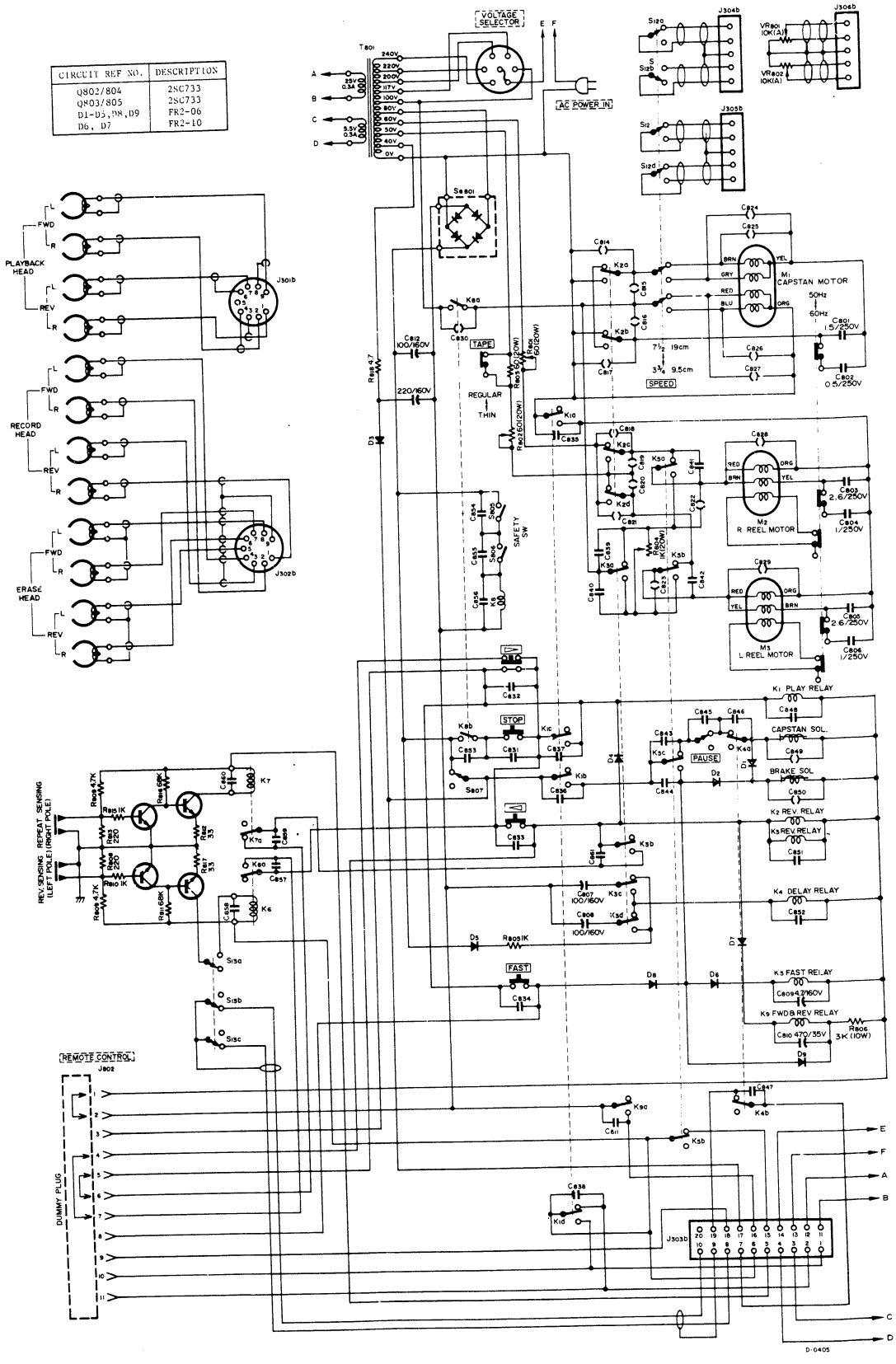
PRESSURE MEASUREMENT



TENSIONING RESISTORS

TAPE TRANSPORT

CIRCUIT REF NO.	DESCRIPTION
Q802/804	2SC733
Q803/805	2SC733
D1-D5, D8, D9	FR2-06
D6, D7	FR2-10

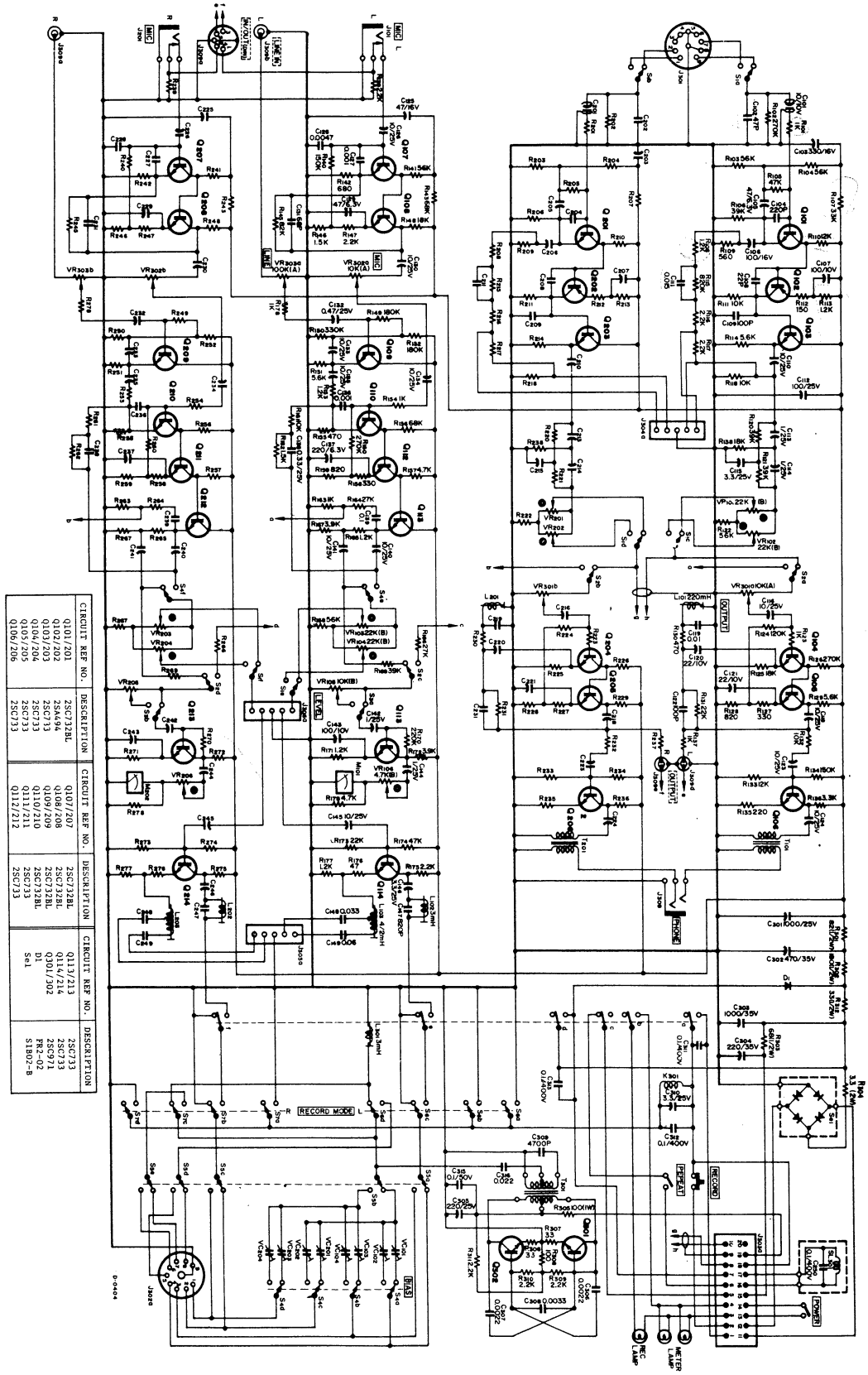


D-0405

SCHEMATIC DIAGRAM

A-4070

PREAMPLIFIER



CIRCUIT REF NO.	DESCRIPTION
Q101/201	2SC732BL
Q102/202	2SA494
Q103/203	2SC733
Q104/204	2SC733
Q105/205	2SC733
Q106/206	2SC733

CIRCUIT REF NO.	DESCRIPTION
Q107/207	2SC732BL
Q108/208	2SC732BL
Q109/209	2SC732BL
Q110/210	2SC732BL
Q111/211	2SC733
Q112/212	2SC733

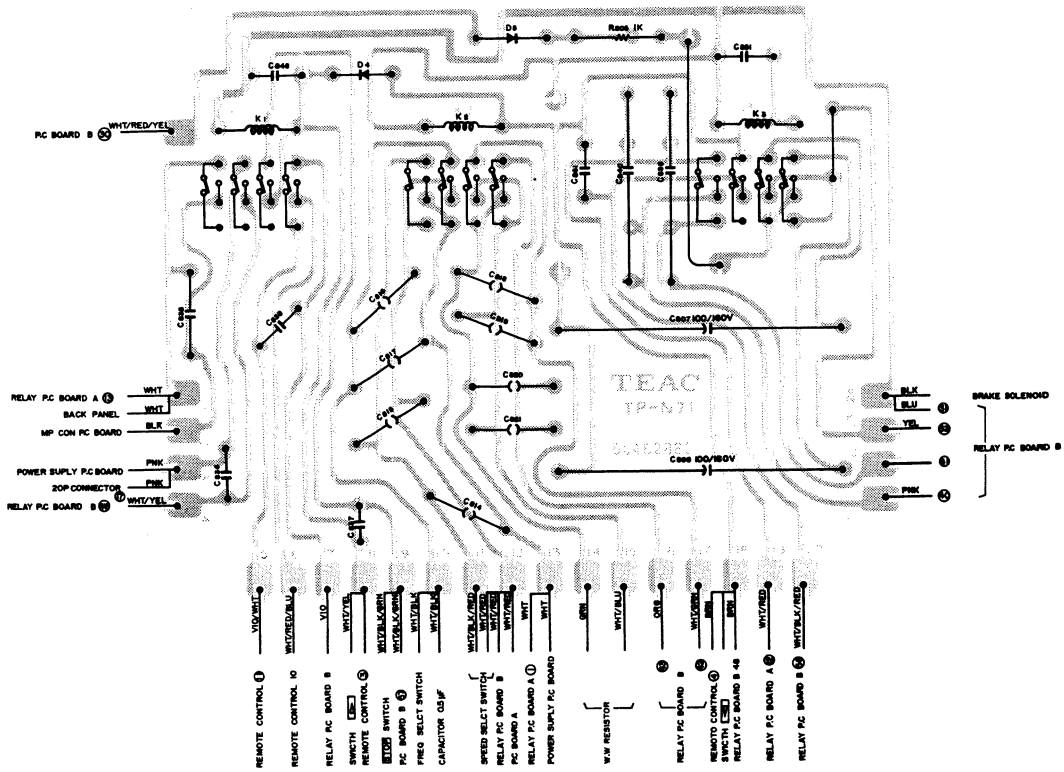
CIRCUIT REF NO.	DESCRIPTION
Q113/213	2SC733
Q114/214	2SC733
Q301/302	2SC971
D1	FR2-02
Sel	S1B02-B

PRINTED CIRCUIT BOARD AND PARTS LIST

MODEL A-2070

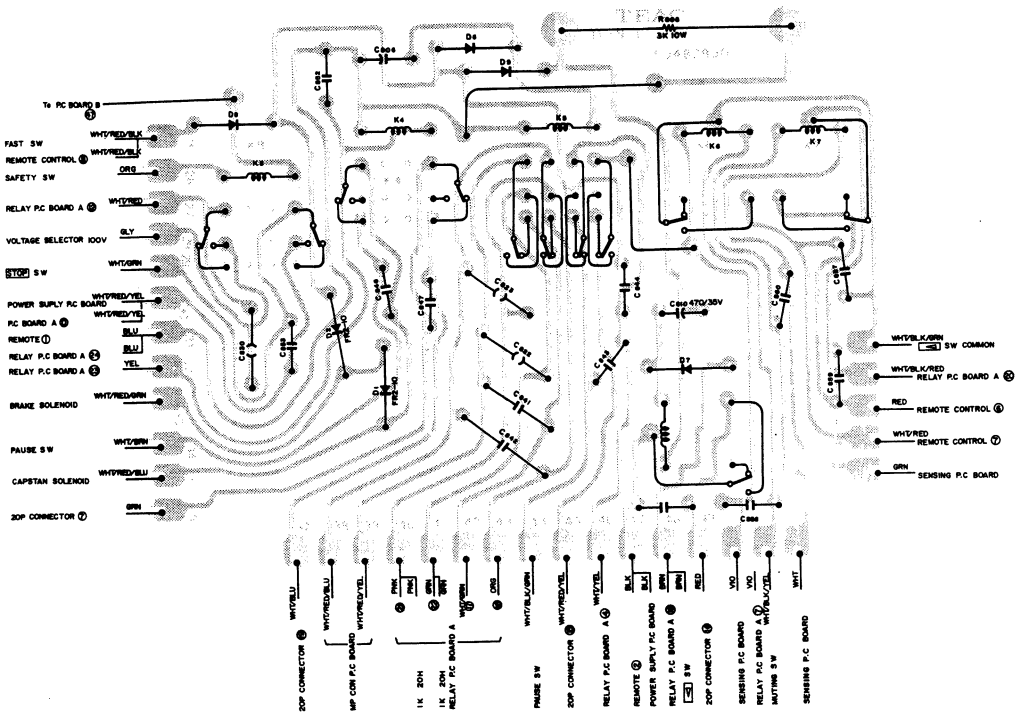
PC BOARD
PARTS LIST
A 4070

RELAY PC BOARD ASSY A



CIRCUIT REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
2-43	50489160	PC Board Assy, Relay A			
	50482880	PC Board, Relay A			
K1-K3	50610730	Relay, 4T 100V MY-4			
D4·5	50422360	Diode, Silicon FR2-06			
R805		Resistor, Carbon 1k 1/4W			
C807·808	50555250	Elec. 100uF/160V			
C814-821	50529050	CR Unit, 0.1uF + 120 ohm/400V			
C835-838	50548060	Cap., Mylar 0.1uF/250V			
C839·840	50549860	Cap., Mylar 0.1uF/400V			
C848	50548060	Cap., Mylar 0.1uF/250V			
C851	50548060	Cap., Mylar 0.1uF/250V			
C861	50548060	Cap., Mylar 0.1uF/250V			

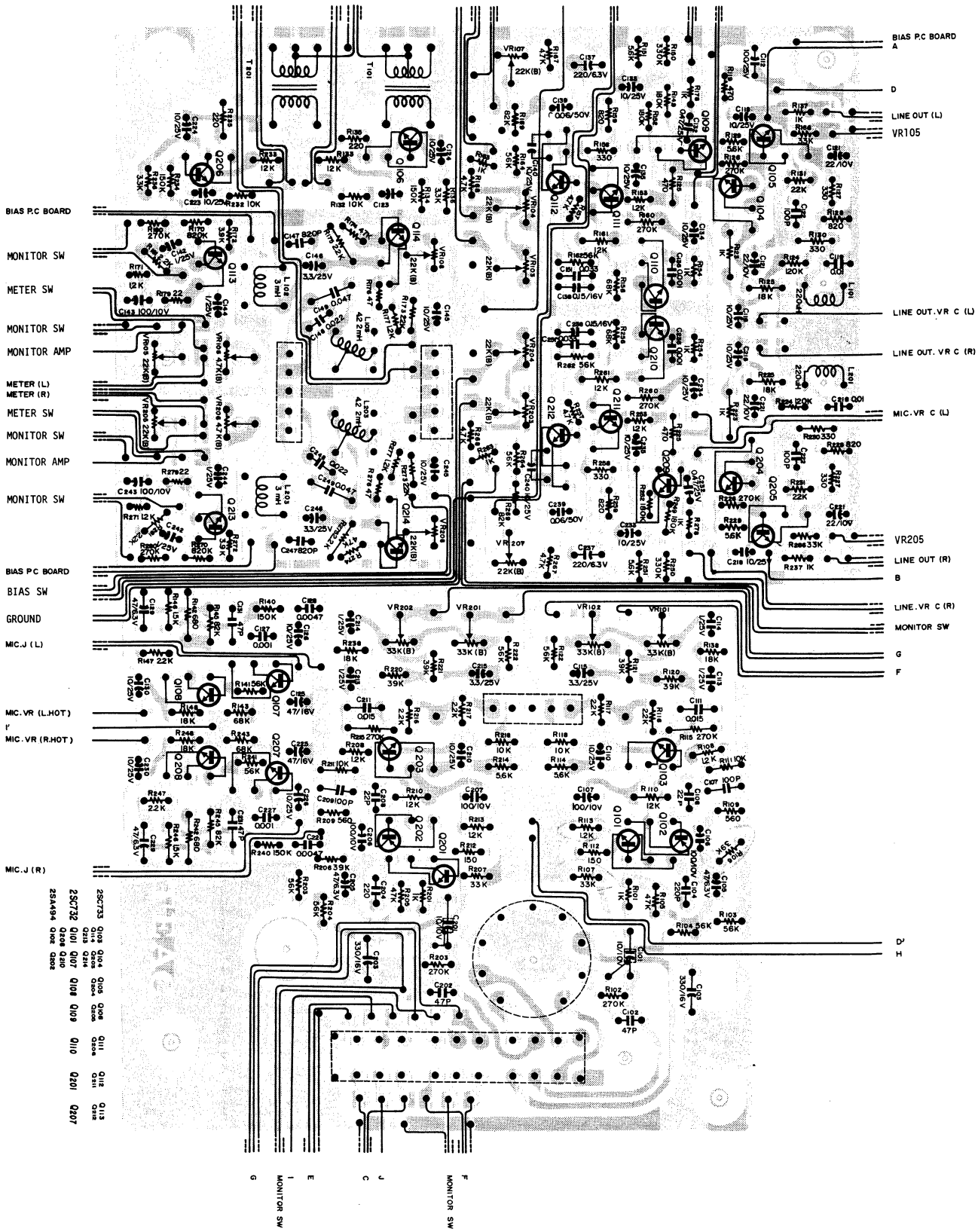
RELAY PC BOARD ASSY B



CIRCUIT REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
2-44	50489170	PC Board Assy, Relay B			
	50482890	PC Board, Relay B			
R806	50520070	Resistor, Cement 3k			
K4·5	50610730	Relay, 4T 100V MY-4			
K6·7	50610800	Relay, 1T 24V			
K8	50610730	Relay, 4T 100V MY-4			
D1·2	50422360	Diode, Silicon FR2-06			
D6·7	50422380	Diode, Silicon FR2-10			
C809	50554000	Cap., Elec. 4.7uF/160V			
C810	50554620	Cap., Elec. 470uF/35V			
C822·823	50529050	CR Unit 0.1uF + 120 ohm 400V			
C830	50529050	CR Unit 0.1uF + 120 ohm 400V			
C841-844	50548060	Cap., Mylar 0.1uF/250V			
C846·847	50548060	Cap., Mylar 0.1uF/250V			
C852·853	50548060	Cap., Mylar 0.1uF/250V			
C857-860	50548060	Cap., Mylar 0.1uF/250V			

PC BOARD
PARTS LIST
A 4070

PREAMPLIFIER



PREAMPLIFIER

CIRCUIT REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
6-3	50489150	PC Board Assy, Preamplifier			
	50482870	PC Board, Preamplifier			
	50221510	Spring Hook			
S1	50444130	SW, Slide			
J301a	50432730	Socket, 9P			
	50429060	Clamp, For 9P Socket			
J301b	50432740	Plug, 9P			
J304	50432780	Connector, 5P Male,(White)			
J305	50432790	Connector, 5P Male (Red)			
J306	50432800	Connector, 5P Male (Black)			
T101/201	50562140	Transformer, Output			
	50452170	Terminal Strip, 1L2P			
		SILICON TRANSISTORS			
Q101/201	50423660	2SC732(BL)			
Q102/202	50423650	2SA494(Y)			
Q103/203	50423510	2SC733(Y)			
Q104/204	50423510	2SC733(Y)			
Q105/205	50423510	2SC733(Y)			
Q106/206	50423510	2SC733(Y)			
Q107/207	50423660	2SC732(BL)			
Q108/208	50423660	2SC732(BL)			
Q109/209	50423660	2SC732(BL)			
Q110/210	50423660	2SC732(BL)			
Q111/211	50423510	2SC733(Y)			
Q112/212	50423510	2SC733(Y)			
Q113/213	50423510	2SC733(Y)			
Q114/214	50423510	2SC733(Y)			
		CARBON RESISTORS			
		ALL RESISTORS IN OHMS, 10% TOLERANCE, 1/4 WATTS UNLESS OTHERWISE NOTED.			
R101/201	50515340	1 k			
R102/202	50515700	270 k			
R103/203	50518240	56 k			
R104/204	50518240	56 k			
R105/205	50515590	47 k			
R106/206	50515580	39 k			
R107/207	50515570	33 k			
R108/208	50515350	1.2 k			
R109/209	50515310	560			
R110/210	50515500	12 k			
R111/211	50515490	10 k			
R112/212	50515240	150			
R113/213	50515350	1.2 k			
R114/214	50515460	5.6 k			
R115/215	50515770	820 k			
R116/216	50515380	2.2 k			
R117/217	50515380	2.2 k			
R118/218	50515490	10 k			
R119/219	50515300	470			
R120/220	50515580	39 k			
R121/221	50515580	39 k			
R122/222	50518240	56 k			
R123/223	50515340	1 k			
R124/224	50515650	120 k			
R125/225	50515520	18 k			
R126/226	50515700	270 k			
R127/227	50515280	330			

PREAMPLIFIER *(CONTINUED)*

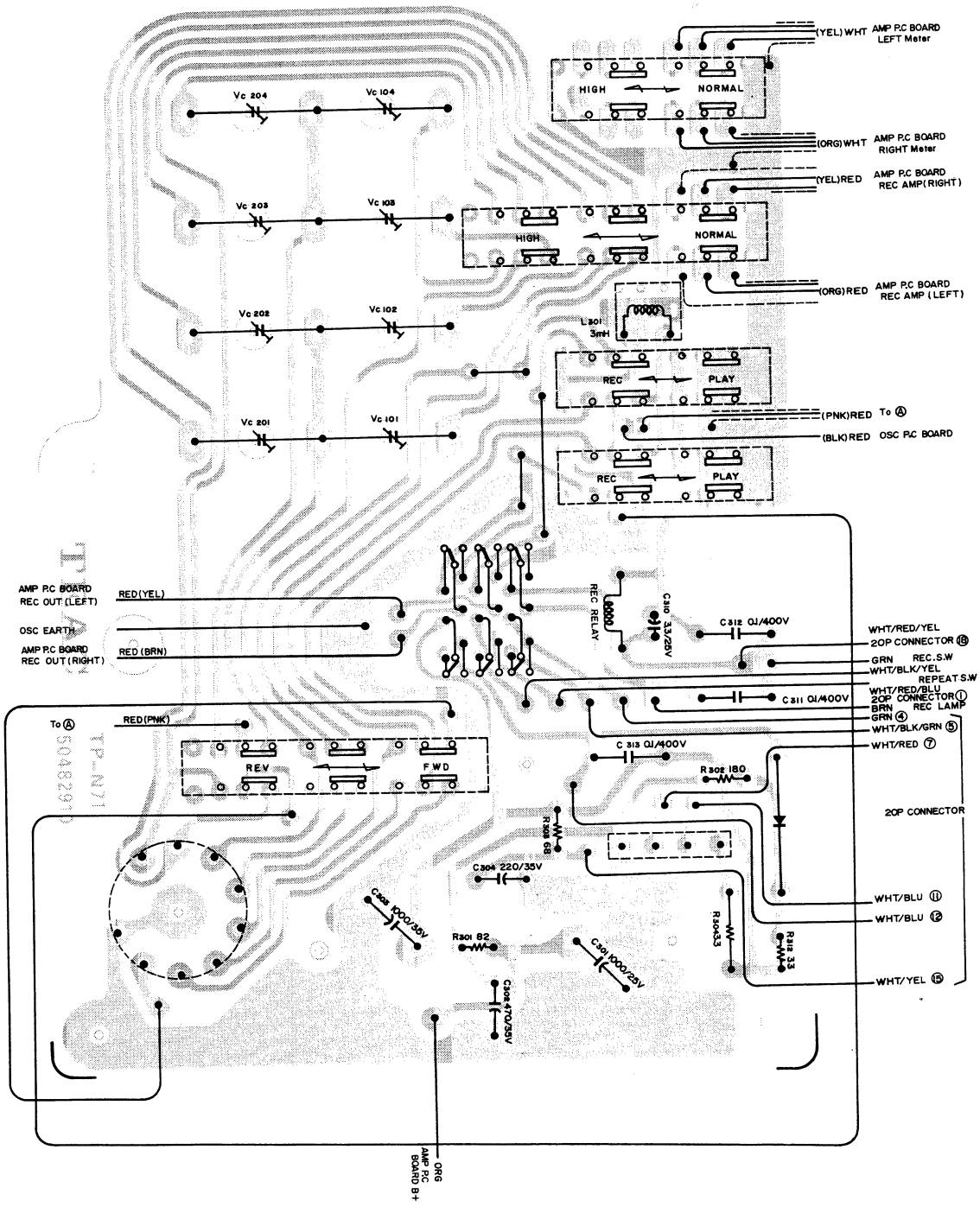
CIRCUIT REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
R128/228	50515330	820			
R129/229	50515460	5.6 k			
R130/230	50515300	470			
R131/231	50515540	22 k			
R132/232	50515490	10 k			
R133/233	50515500	12 k			
R134/234	50515660	150 k			
R135/235	50515260	220			
R136/236	50515410	3.3 k			
R137/237	50515340	1 k			
R138/238	50515520	18 k			
R139/239	50515380	2.2 k			
R140/240	50515660	150 k			
R141/241	50518240	56 k			
R142/242	50515320	680			
R143/243	50515620	68 k			
R144/244					
R145/245	50515630	82 k			
R146/246	50515360	1.5 k			
R147/247	50515380	2.2 k			
R148/248	50515520	18 k			
R149/249	50515670	180 k			
R150/250	50515710	330 k			
R151/251	50515460	5.6 k			
R152/252	50515670	180 k			
R153/253	50515350	1.2 k			
R154/254	50515340	1 k			
R155/255	50515300	470			
R156/256	50515620	68 k			
R157/257	50515440	4.7 k			
R158/258	50515280	330			
R159/259	50515330	820			
R160/260	50515700	270 k			
R161/261	50515490	10 k			
R162/262	50515510	15 k			
R163/263	50515340	1 k			
R164/264	50515580	39 k			
R165/265	50515350	1.2 k			
R166/266	50515560	27 k			
R167/267	50515430	3.9 k			
R168/268	50515440	4.7 k			
R169/269	50515580	39 k			
R170/270	50515680	220 k			
R171/271	50515350	1.2 k			
R172/272	50515430	3.9 k			
R173/273	50515440	22 k			
R174/274	50515590	47 k			
R175/275	50515380	2.2 k			
R176/276	50515170	47			
R177/277	50515350	1.2 k			
R178/278	50515340	1 k			
		TRIMMER RESISTORS			
VR101/201	50533720	22 k (B)			
VR102/202	50533720	22 k (B)			
VR103/203	50533720	22 k (B)			
VR104/204	50533720	22 k (B)			
VR105/205	50533480	10 k (B)			
VR106/206	50533460	4.7 k (B)			

PREAMPLIFIER *(CONTINUED)*

CIRCUIT REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
		CAPACITORS			
		ALL CAPACITORS IN MICRO FARADS UNLESS OTHERWISE NOTED.			
C101/201	50546010	Tantalum 10/16V			
C102/202	50543480	Polyst. 47p/50V			
C103/203	50554840	Elec. 330/16V			
C104/204	50543420	Polyst. 220p/50V			
C105/205	50554030	Elec. 47/6.3V			
C106/206	50554570	Elec. 100/10V			
C107/207	50554570	Elec. 100/10V			
C108/208	50543330	Polyst. 22p/50V			
C109/209	50543400	Polyst. 100p/50V			
C110/210	50554040	Elec. 10/25V			
C111/211	50548420	Mylar 0.015/50V			
C112/212	50554170	Elec. 100/25V			
C113/213	50554810	Elec. 1/25V			
C114/214	50554810	Elec. 1/25V			
C115/215	50554220	Elec. 3.3/25V			
C116/216	50554040	Elec. 10/25V			
C117/217					
C118/218	50554040	Elec. 10/25V			
C119/219	50548020	Mylar 0.01/50V			
C120/220	50554880	Elec. 22/16V			
C121/221	50554880	Elec. 22/16V			
C122/222	50543400	Polyst. 100p/50V			
C123/223	50554040	Elec. 10/25V			
C124/224	50554040	Elec. 10/25V			
C125/225	50554010	Elec. 47/16V			
C126/226	50554040	Elec. 10/25V			
C127/227	50548320	Mylar 0.001/50V			
C128/228	50548130	Mylar 0.0047/50V			
C129/229	50554030	Elec. 47/6.3V			
C130/230	50554040	Elec. 10/25V			
C131/231	50543520	Polyst. 68p/50V			
C132/232	50546040	Aluminum 0.47/25V			
C133/233	50554040	Elec. 10/25V			
C134/234	50554040	Elec. 10/25V			
C135/235	50554040	Elec. 10/25V			
C136/236	50548320	Mylar 0.001/50V			
C137/237	50554330	Elec. 220/6.3V			
C138/238	50549850	Aluminum 0.33/25V			
C139/239	50548040	Mylar 0.1/50V			
C140/240	50554040	Elec. 10/25V			
C141/241	50554040	Elec. 10/25V			
C142/242	50554810	Elec. 1/25V			
C143/243	50554570	Elec. 100/10V			
C144/244	50554810	Elec. 1/25V			
C145/245	50554040	Elec. 10/25V			
C146/246	50546030	Aluminum 3.3/25V			
C147/247	50543720	Polyst. 820p/50V			
C148/248	50548240	Mylar 0.033/50V			
C149/249	50548510	Mylar 0.06/50V			
		COILS			
L101/201	50566410	Trap, 220uH			
L102/202	50566300	Trap, 3mH			
L103/203	50566370	Rec. EQ 4.2/2.4mH			

PC BOARD
A 4070

BIAS ADJUST ASSY

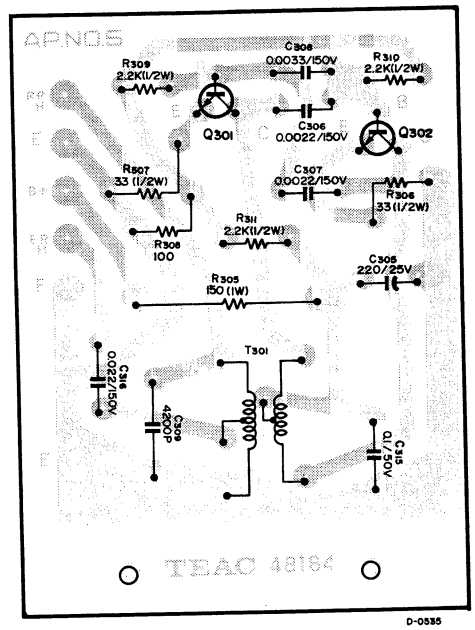


BIAS ADJUST ASSY

CIRCUIT REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
6-4	50489190	PC Board Assy, Bias Adjust			
	50482910	PC Board, Bias Adjust			
	50221510	Spring Hook			
J302a	50432730	Socket, 9P			
K301	50610860	Relay, 6P DC24V MH6P			
	50432720	Relay Socket, with Clamp			
	50422220	Diode, Silicon Stack (B)			
	50422340	Diode, Silicon FR2-02			
L301	50566300	Coil Trap, 3mH			
S3	50444330	SW, Slide, 4C 2T			
S4	50444340	SW, Slide, 6C 2T			
S5	50444130	SW, Slide, 6C 2T			
S6·7	50444330	SW, Slide, 4C 2T			
	50429140	Spring, For Relay Clamp			
		CARBON RESISTORS			
R301	50516210	82 ohm 1/2W 10%			
R302	50516250	180 ohm 1/2W 10%			
R303	50516200	68 ohm 1/2W 10%			
R304	50526070	3.3 ohm 2W 10%			
R312	50516150	33 ohm 1/2W 10%			
		CAPACITORS			
C301	50554440	Elec. 1000uF 25V			
C302	50554620	Elec. 470uF 35V			
C303	50554740	Elec. 1000uF 35V			
C304	50554380	Elec. 220uF 35V			
C310	50554220	Elec. 3.3uF 25V			
C311	50548390	Metalized Mylar 0.1uF 400V			
C312	50548390	Metalized Mylar 0.1uF 400V			
C313	50548390	Metalized Mylar 0.1uF 400V			
VC101-104	50547070	Trimmer 80pF			
VC201-204	50547070	Trimmer 80pF			

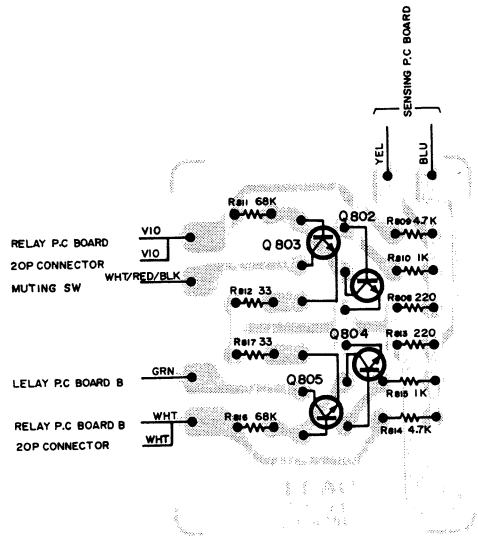
PC BOARD
PARTS LIST
A 4070

BIAS OSCILLATOR



CIRCUIT REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
6-43	50489620	PC Board Assy, Bias Osc.			
	50481840	PC Board, Bias Osc.			
T301	50563120	Transformer, Osc.			
		SILICON TRANSISTORS			
Q301	50423880	2SC971			
Q302	50423880	2SC971			
		RESISTORS			
R305	50527090	Metal Oxide Film, 150 ohm 1W			
R306·307	50515150	Carbon, 33 ohm 1/4W 10%			
R308	50515220	Carbon, 100 ohm 1/4W 10%			
R309-311	50515380	Carbon, 2.2k ohm 1/4W 10%			
		CAPACITORS			
C305	50554180	Elec. 220uF 25V			
C306·307	50548210	Mylar 0.0022uF 150V			
C308	50548530	Mylar 0.0033uF 150V			
C309	50544040	Mica 4200pF			
C315	50548040	Mylar 0.1uF 50V			
C316	50548740	Mylar 0.022uF 150V			

SENSING

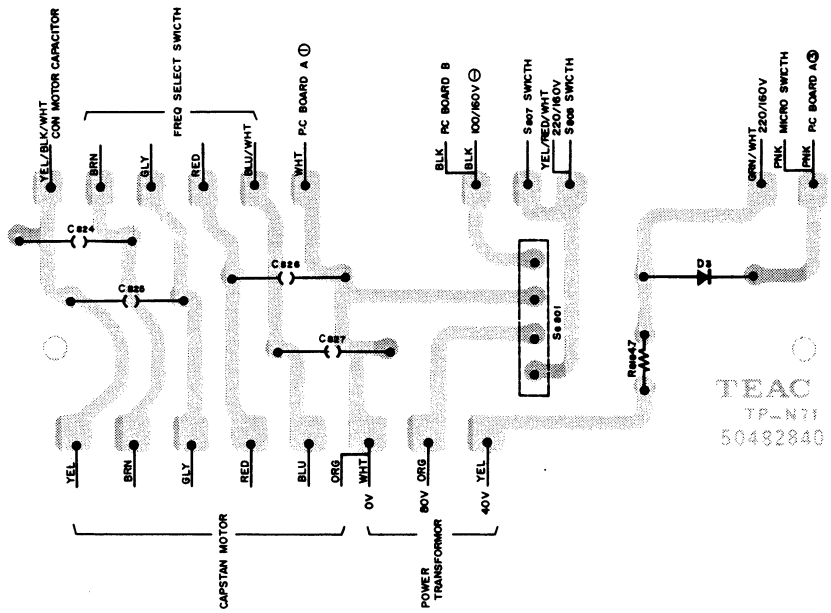


Q802	2SC733
Q803	2SC733
Q804	2SC733
Q805	2SC733

CIRCUIT REF NO.	TEAC PARTS NO.	DESCRIPTION	1ST	2ND	
2-26	50489180	PC Board Assy, Sensing			
	50482900	PC Board, Sensing			
Q802-805	50423510	Transistor, 2SC733(Y)			
R812·817		Resistor, Carbon 33 ohm 1/4W			
R808·813		Resistor, Carbon 220 ohm 1/4W			
R809·814		Resistor, Carbon 4.7k ohm 1/4W			
R810·815		Resistor, Carbon 1k ohm 1/4W			
R811·816		Resistor, Carbon 68k ohm 1/4W			

PC BOARD
PARTS LIST
A 4070

POWER SUPPLY



CIRCUIT REF NO.	TEAC PARTS NO.	DESCRIPTION	1ST	2ND	
2-39	50489110	PC Board Assy, Power Supply			
	50482840	PC Board, Power Supply			
Se801	50422240	Diode, Silicon Stack (B)			
R818	50525920	Resistor, Wire Wound 4.7/1W			
	50422560	Diode, Silicon FR2-06			
C824-827	50529050	CR Unit, 0.1uF + 120 ohm			

EXPLODED VIEW AND PARTS LIST

MODEL A-4070

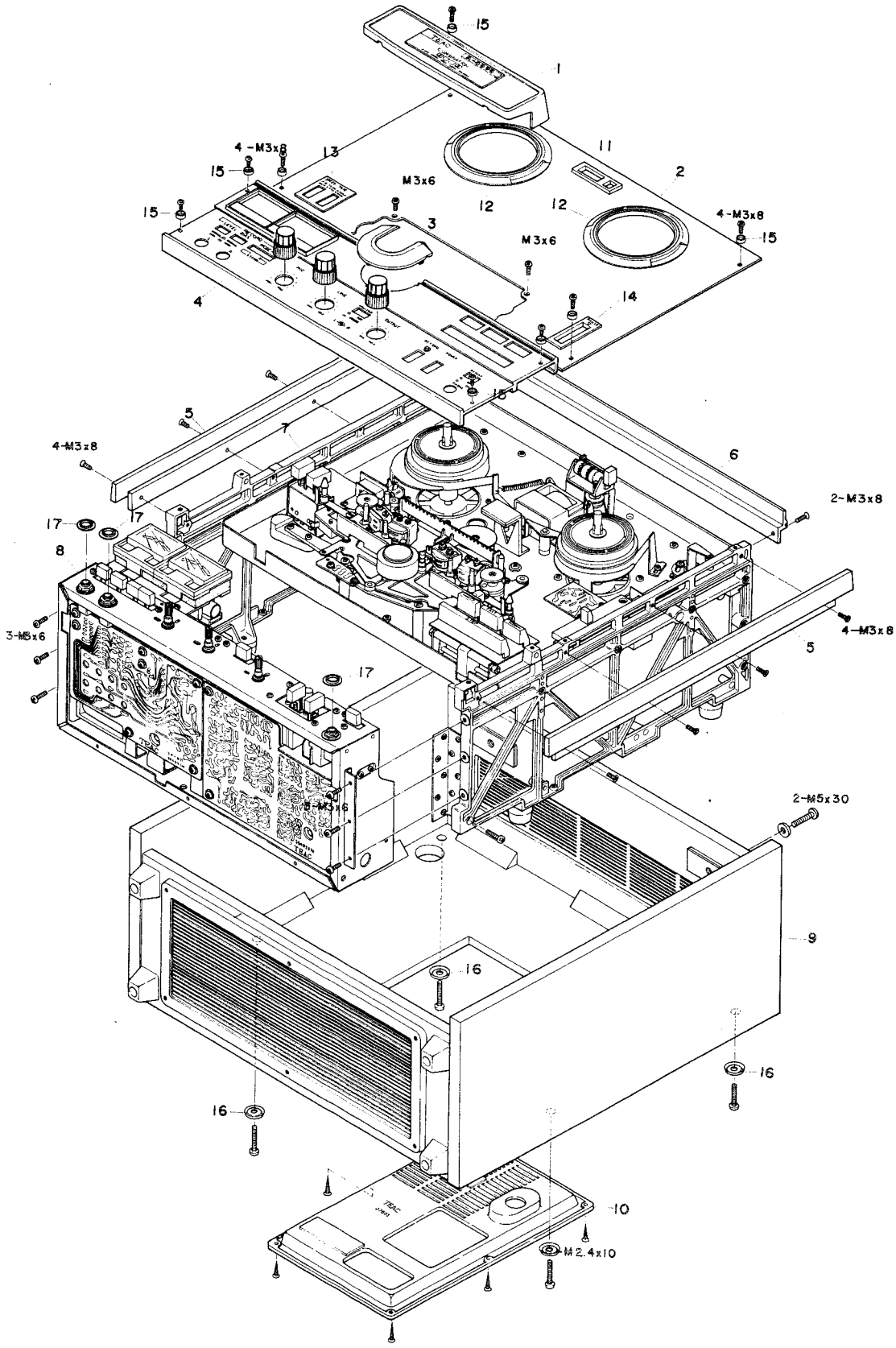
REPLACEMENT PARTS INFORMATION

Replacement parts are available through your nearest TEAC dealer or directly from the TEAC office.
Changes are constantly being made to make TEAC products better and more reliable.
Therefore, when ordering parts, always include the following information:

MODEL *SERIAL NO.* *REF NO.* *PART NO.* *DESCRIPTION*

EXPLOBED VIEW
A-4070

TRIM PARTS

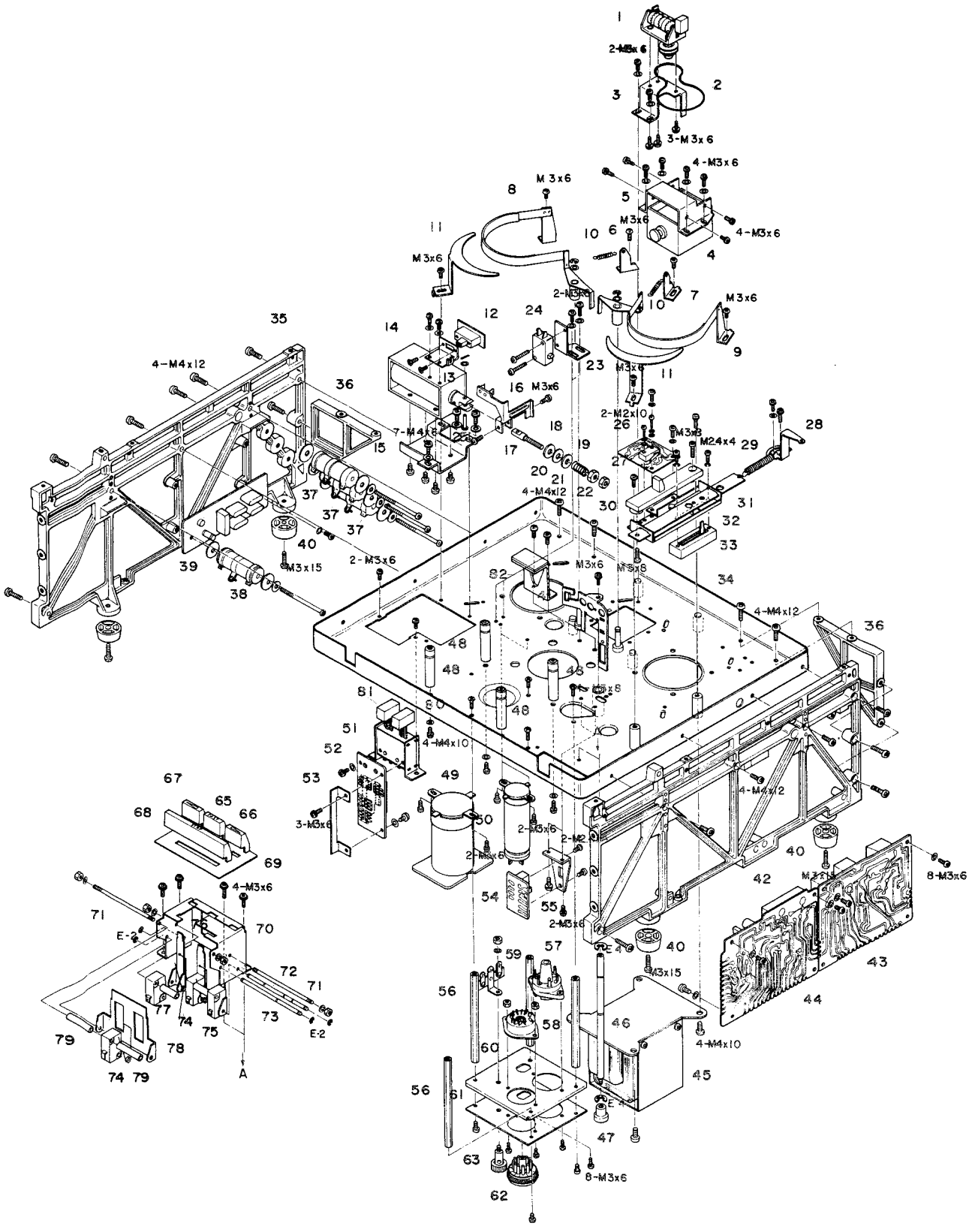


TRIM PARTS

REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
1- 1	50500740	Head Housing Assy			
1- 2	50113310	Trim Panel Assy			
1- 3	50142170	Escutcheon, Pinch Roller			
1- 4	50113280	Control Panel Assy			
1- 5	50113320	Trim Sash, Side			
1- 6	50113330	Trim Sash, Upper			
1- 7					
1- 8		Preamplifier			
1- 9	50287530	Wooden Case			
1-10	50276230	Rear Air Vent			
1-11	50277020	Escutcheon, Index Counter			
1-12	50162790	Escutcheon, Reel Table			
1-13	50279820	Escutcheon, Switch			
1-14	50152890	Escutcheon, Pause Lever			
1-15	50273671	Trim Washer			
1-16	50287600	Washer, Deck Mount			
1-17	50272610	Insulate Washer (A)			

EXPLOBED VIEW
A-4070

MAIN CHASSIS



D-0434

MAIN CHASSIS

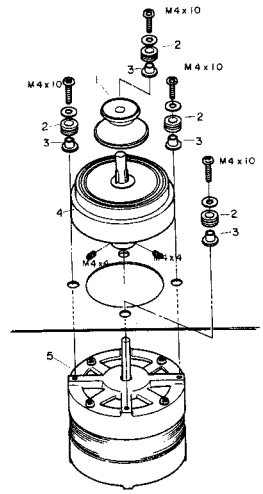
REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
2- 1	50585130	Index Counter			
2- 2	50271420	Belt, Counter			
2- 3	50279590	Mount Bracket, Index Counter			
2- 4	50616490	Solenoid, Brake			
2- 5	50235040	Mount Bracket, Brake Solenoid			
2- 6	50173170	Bracket, Brake Spring, L			
2- 7	50173180	Bracket, Brake Spring, R			
2- 8	50173270	Brake Arm Assy, L			
2- 9	50173280	Brake Arm Assy, R			
2-10	50220441	Spring, Brake			
2-11	50173090	Brake Retainer			
2-12	50489080	PC Board Assy, SW, A			
	50482770	PC Board, SW, A			
	50444290	SW, Slide			
2-13	50235021	Mount Bracket, Slide SW, B			
2-14	50616500	Solenoid, Capstan			
2-15	50235250	Mount Plate, Capstan Solenoid			
2-16	50234990	SW Actuator Bracket Assy			
2-17	50142050	Screw, Pressure			
2-18	50142070	Felt Washer			
2-19	50221450	Spring, Pressure			
2-20	50142090	Washer, B			
2-21	50142080	Washer, A			
2-22	50142100	Lock Nut			
2-23	50234980	Mount Bracket, Micro SW, A			
2-24		SW, Micro			
2-25	50142060	Plunger Pin			
2-26	50489180	PC Board Assy, Sensing			
	50482900	PC Board, Sensing			
Q802-805	50423510	Transistor, 2SC733(Y)			
R812·817		Resistor, Carbon 33 ohm 1/4W			
R808·813		Resistor, Carbon 220 ohm 1/4W			
R809·814		Resistor, Carbon 4.7k ohm 1/4W			
R810·815		Resistor, Carbon 1k ohm 1/4W			
R811·816		Resistor, Carbon 68k ohm 1/4W			
2-27	50446320	SW, Micro			
2-28	50279630	Bracket, Pause Spring			
2-29	50221480	Spring, Pause			
2-30	50253550	Pause Lever			
2-31	50279700	Slide Plate			
2-32	50279740	Slide Frame			
2-33	50533710	Potentiometer, Slide, Dual 10k			
2-34	50235240	Chassis, Transport			
2-35	50112740	Side Frame, Left			
2-36	50235070	Reinforcing Frame			
2-37	50522080	Resistor, Wire Wound 1k/20W			
2-38	50522220	Resistor, Wire Wound 60 ohm/20W			
2-39	50489110	PC Board Assy, Power Supply			
	50482840	PC Board, Power Supply			
Se801	50422240	Diode, Silicon Stack(B)			
R818	50525920	Resistor, Wire Wound 4.7/1W			
	50422560	Diode, Silicon FR2-06			
C824-827	50529050	CR Unit, 0.1uF + 120 ohm			

Continue to the following page

MAIN CHASSIS *(CONTINUED)*

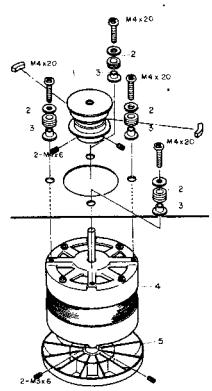
REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
2-40	50283830	Mount Foot			
2-41	50125280	Belt Changer			
2-42	50112750	Side Frame, Right			
2-43	50489160	PC Board Assy, Relay A			
2-44	50489170	PC Board Assy, Relay B			
2-45	50561900	Transformer, Power			
2-46	50125300	Belt Change Shaft			
2-47	50125310	Belt Change Knob			
2-48	50241750	Mount Stand-Off, Head Assy			
2-49	50545750	Cap., MP (2.4 + 0.8uF) x 2			
	50482780	PC Board, MP Capacitor			
2-50	50553020	Cap., Elec. 220 + 100uF/160V			
2-51	50443640	Two Push SW Assy, Tape Speed and Thickness			
2-52	50482850	PC Board, Push SW Assy			
2-53	50235140	Mount Bracket, PC Board			
2-54	50489100	PC Board Assy, SW A			
	50482790	PC Board, SW A			
	50444300	SW, Slide 6C2T			
2-55	50235030	Mount Bracket, SW A			
2-56	50241740	Mount Stand-Off			
2-57	50412143	Fuse Holder, Voltage Selection			
2-58	50432700	Socket, 11P Female			
2-59	50452060	Terminal Strip, 1L2P			
2-60	50234970	Mount Plate, Socket			
2-61	50264790	Trim Panel, Plastic			
2-62	50432690	Dummy Plug, 11P Male			
2-63	50454671	Post, GND Terminal			
2-64	50411140	Fuse, 2A			
2-65	50252990	Push Button, Fast Forward			
2-66	50252980	Push Button, Forward			
2-67	50253000	Push Button, Reverse			
2-68	50252970	Push Button, Stop			
2-69	50279580	Rubber Plate			
2-70	50190730	SW Housing			
2-71	50190740	SW Mount Rod, A			
2-72	50190750	SW Mount Rod, B			
2-73	50190760	SW Mount Rod, C			
2-74	50221010	Spring			
2-75		SW, Micro			
2-76	50190770	Operate Lever A			
2-77	50241030	Spacer, B			
2-78	50190780	Operate Lever B			
2-79	50241040	Spacer, C			
2-80	50253530	Push Button			
2-81	50253530	Push Button			
2-82	50279890	Bracket, Panel Support			
	50279570	Panel Cushion			

REEL MOTOR ASSY



REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
4-1	50161580	Reel Holder			
4-2	50173140	Rubber Cushion Ring			
4-3	50173160	Shoulder Washer			
4-4	50173110	Reel Drum			
4-5	71041020	Motor, Reel			

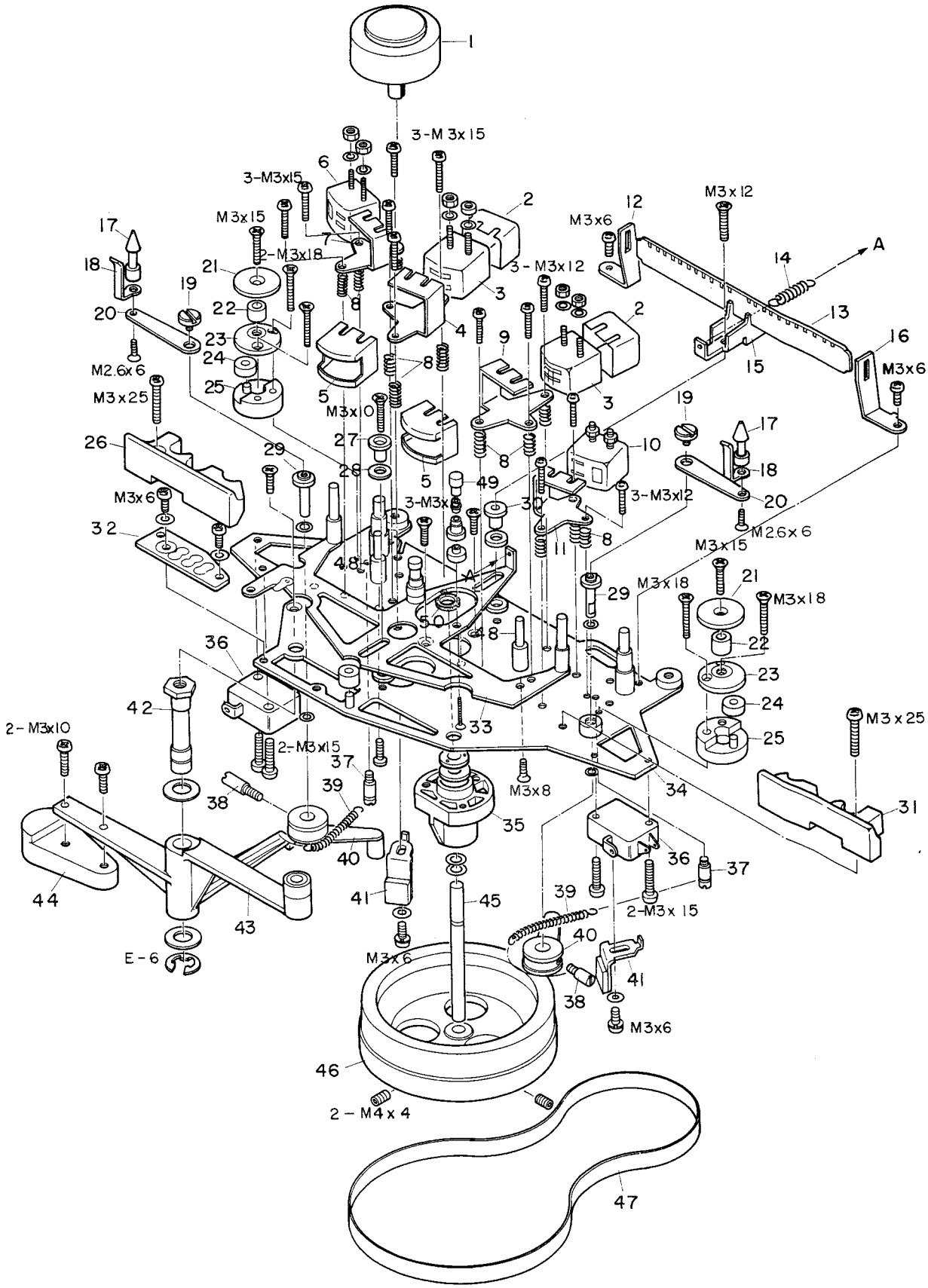
CAPSTAN MOTOR ASSY



REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
	50120420	Cap Motor Assy			
5-1	50125231	Motor Pulley			
5-2	50173140	Rubber Cushion Ring			
5-3	50173160	Shoulder Washer			
5-4	71021010	Motor, Capstan			
5-5	50123980	Fan			

EXPLOBED VIEW
A-4070

HEAD BASE ASSY

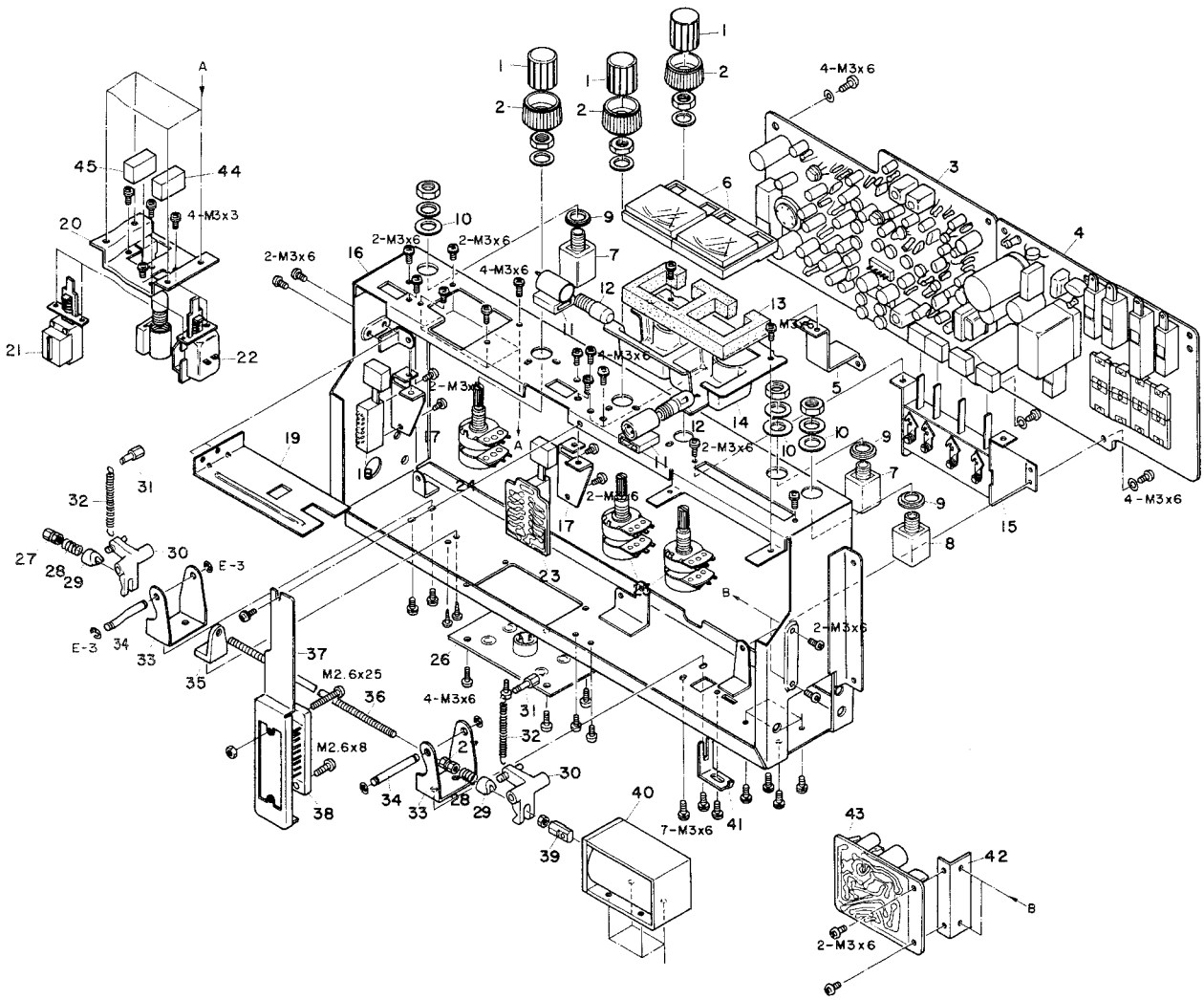


HEAD BASE ASSY

REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
3- 1	50142140	Pinch Roller Assy	50140200		
3- 2	50133901	Head Shield, Rear	50679870		
3- 3	50669041	Head, Playback	50667300		
3- 4	50135411	Mount Bracket PB HD, B			
3- 5	50135430	Head Shield, Front	50679880		
3- 6	50663410	Head, Erase/Rec, Forward	50667410		
3- 7	50135421	Mount Bracket, E/R HD, B			
3- 8	50221400	Spring, A, Head			
	50221410	Spring, Head, B			
3- 9	50135391	Mount Bracket, PB HD, A			
3-10	50663420	Head, Erase/Rec, Reverse			
3-11	50135401	Mount Bracket, E/R HD, A			
3-12	50234950	Bracket, Head PC Board, L			
3-13	50482820	PC Board, Head			
3-14	50221420	Spring, Lifter			
3-15	50152840	Bracket, Lifter Spring			
3-16	50234960	Bracket, Head PC Board, R			
3-17	50183440	Tape Guide Post			
3-18	50330170	Tape Retainer Arm			
3-19	50183430	Mount Screw, Tension Arm			
3-20	50183421	Tension Arm			
3-21	50135500	Guide Flange, A			
3-22	50135490	Guide Spacer			
3-23	50135480	Guide Flange, B			
3-24	50183520	Cushion Ring, Rubber			
3-25	50183530	Guide Base			
3-26	50279310	Lower Head Protector, L			
3-27	50152850	Shoulder Washer, Slide Base, B			
3-28	50152821	Washer			
3-29	50183450	Tension Arm Shaft			
3-30	50152830	Shoulder Washer, Slide Base, A			
3-31	50279800	Lower Head Protector, R			
3-32	50482800	PC Board, Sensing, B			
3-33	50152860	Slide Base Assy			
	50482810	Sensing Print A			
3-34	50135461	Head Base			
3-35	50125240	Capstan Housing			
3-36		SW, Micro			
3-37	50183510	Pin, Tension Arm Spring			
3-38	50183490	Pin, Spring Retaining Drum			
3-39	50221390	Spring, Tension Arm Spring			
3-40	50183461	Balance Arm Assy			
3-41	50234940	Bracket, Magnet			
	50182160	Magnet			
3-42	50142131	Roller Arm Shaft			
3-43	50142150	Pinch Roller Arm			
3-44	50142120	Balance Weight			
3-45	50123691	Capstan Shaft			
3-46	50124011	Fly-wheel, Capstan			
3-47	50125210	Belt, Capstan			
3-48	50135510	Guide Post			
3-49		Sensing Post			

EXPLOBED VIEW
A-4070

PREAMPLIFIER CHASSIS



PREAMPLIFIER CHASSIS

REF NO.	TEAC PARTS NO.	DESCRIPTION	1st	2nd	3rd
6- 1	50253420	Knob, Inner			
6- 2	50243431	Knob, Outer			
6- 3	50489150	PC Board Assy, Preamplifier			
6- 4	50489190	PC Board Assy, Bias Adjust			
6- 5	50235080	Mount Bracket, PC Board, E			
6- 6	50581330	VU Meter			
6- 7	50430230	Phone Jack, Single, Microphone			
6- 8	50432440	Phone Jack, 3 cond., Headphone			
6- 9	50272620	Insulate Washer, B			
6-10	50230560	Fiber Washer			
6-11	50431140	Socket, Lamp			
6-12	50414131	Lamp, 8V			
6-13	50279840	Meter Cushion			
6-14	50279851	Meter Holder			
6-15	50448840	Four Push SW Assy			
6-16	50235160	Chassis, Preamplifier			
6-17	50235180	Mount Bracket, Push SW Assy			
6-18	50443240	SW, Push, Repeat			
6-19	50135560	Shield Plate			
6-20	50448830	Mount Plate, Rec SW			
6-21	50443660	SW, Push, Power			
6-22	50443360	SW, Push, Record			
6-23	50489210	PC Board Assy, Tape Monitor SW			
	50482930	PC Board, Tape Monitor SW			
6-24	50537170	Potentiometer, Dual, 100k (A)			
6-25	50537160	Potentiometer, Dual, 10k (A)			
6-26	50434610	Pin Jack, 4P, with DIN Connector			
6-27	50210490	Lock Nut, Female			
	50210480	Lock Nut, Male			
6-28	50221490	Spring, Pressure			
6-29	50279780	Actuator Collar			
6-30	50183600	Actuator Arm			
6-31	50221510	Spring Retaining Post			
6-32	50221500	Spring, Actuator Arm			
6-33	50183590	Actuator Arm Holder			
6-34	50183610	Actuator Arm Shaft			
6-35	50183620	Guide Bracket			
6-36	50279750	Shaft			
6-37	50235190	Mount Bracket, 20P Connector			
6-38	50432810	Connector, 20P			
6-39					
6-40		Solenoid			
6-41	50279900	Bracket, Limit Stop			
6-42		Mount Bracket, Bias Osc. Assy			
6-43	50489620	PC Board Assy, Bias Osc.			